

<b>Name:</b>	<i>Strategy and Tactics</i>
<b>Course Description:</b>	This course provides an in-depth analysis of the principles of fire control through utilization of personnel, equipment, and extinguishing agents on the fire ground.
<b>Prerequisite:</b>	<i>Principles of Emergency Services</i>
<b>Outcomes:</b>	<ol style="list-style-type: none"> <li>1. Demonstrate (verbally and written) knowledge of fire behavior and the chemistry of fire.</li> <li>2. Articulate the main components of pre-fire planning and identify steps during a pre-fire plan review.</li> <li>3. Recall the basics of building construction and how they interrelate to pre-fire planning.</li> <li>4. Recall major steps taken during size-up and identify the order in which they will take place at an incident.</li> <li>5. Recognize and articulate the importance of fire ground communications.</li> <li>6. Identify and define the main functions within the ICS system and how they interrelate during an incident.</li> <li>7. Given different scenarios, the student will set up an ICS, call for appropriate resources and bring the scenario to a mitigated or controlled conclusion.</li> <li>8. Identify and analyze the major causes involved in line of duty firefighter deaths related to health, wellness, fitness and vehicle operations.</li> </ol>
<b>Suggested Student Texts:</b>	<p><i>Command and Control of Fires and Emergencies (and Study Guide);</i> Vincent Dunn, Pennwell, 1999</p> <p><i>Firefighting Strategy and Tactics;</i> James Angle, Thompson, 2000</p> <p><i>Fire Command: The Essentials of Local IMS;</i> NFPA, 2002</p> <p><i>Fire Officers Handbook of Tactics;</i> John Norman, Pennwell, 1998</p> <p><i>Incident Management for the Street-Smart Fire Officer;</i> John "Skip" Coleman, Pennwell, 1997</p> <p><i>Managing Major Fires;</i> John "Skip" Coleman, Pennwell, 2001</p> <p><i>Strategic and Tactical Considerations on the Fire Ground (and Instructor's Guide);</i> James Smith, Brady, 2002</p> <p><i>Strategic and Tactical Considerations on the Fire Ground Study Guide;</i> James Smith, Trafford Press, 2002</p>

<b>Supporting References/Research for Faculty and Students:</b>	<p><b>U.S. Fire Administration</b>  <i>Building Construction, Combustible &amp; Non Combustible CDROM</i>, U. S. Fire Administration</p> <p><u>Publications:</u>  <a href="http://www.usfa.fema.gov/applications/publications/pubs_main.cfm">http://www.usfa.fema.gov/applications/publications/pubs_main.cfm</a>  See Fire Protection, Fire Service Administration, Fire Service Operations, Hazardous Materials, Health and Safety, Rescue, Terrorism, Training, Wildfire</p> <p><u>Applied Research:</u>  <a href="http://www.usfa.fema.gov">http://www.usfa.fema.gov</a></p> <p><u>Research Reports:</u>  <a href="http://www.usfa.fema.gov/research">http://www.usfa.fema.gov/research</a></p> <p><u>Technical Reports:</u>  <a href="http://www.usfa.fema.gov/applications/publications/browse.cfm?mc=29">http://www.usfa.fema.gov/applications/publications/browse.cfm?mc=29</a></p> <p><u>Topical Fire Research Series:</u>  <a href="http://www.usfa.fema.gov">http://www.usfa.fema.gov</a></p> <p><u>Learning Resource Center:</u>  <a href="http://www.lrc.fema.gov">http://www.lrc.fema.gov</a></p> <p><b>National Institute for Standards and Technology</b>  <a href="http://www.fire.nist.gov">http://www.fire.nist.gov</a>: Publications  <a href="http://fire.nist.gov/bfrlpubs/fire02/PDF/f02012.pdf">http://fire.nist.gov/bfrlpubs/fire02/PDF/f02012.pdf</a>  <a href="http://fire.nist.gov/6510/6510c.pdf">http://fire.nist.gov/6510/6510c.pdf</a></p> <p><u>Lessons Learned Information Sharing:</u>  <a href="http://www.llis.dhs.gov/member/secure/index.cfm">http://www.llis.dhs.gov/member/secure/index.cfm</a></p> <p><b>Reference</b>  <i>Strategy and Tactics for Initial Company Operations</i>; NFA</p> <p><b>Current Events/News</b>  <a href="http://www.firehouse.com">http://www.firehouse.com</a>  <a href="http://www.fireengineering.com">http://www.fireengineering.com</a>  <a href="http://www.withthecommand.com">http://www.withthecommand.com</a></p>
<b>Assessment:</b>	<p>Students will be evaluated for mastery of learning objectives by methods of evaluation to be determined by the instructor.</p>
<b>Points of Contact:</b>	<p>Judith G. Kuleta, Bellevue Community College, Washington  (425) 564-2515, <a href="mailto:jkuleta@bcc.ctc.edu">jkuleta@bcc.ctc.edu</a></p> <p>Terry Koeper, Crafton Hills College, California  (909) 389-3261, <a href="mailto:tkoeper@craftonhills.edu">tkoeper@craftonhills.edu</a></p> <p><b>Revision 11/05</b></p>

## **Course Outline**

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### ***Strategy and Tactics***

- I. Fire Chemistry Terms and Concepts
  - A. Heat Transfer
  - B. Principle Fire Characteristics of Materials
  - C. Fire Classifications
- II. Extinguishing Equipment
  - A. Extinguishing Equipment
  - B. Fire Apparatus
  - C. Personnel Requirement
- III. Visual Perception
  - A. Pre-planning
  - B. Size-up
- IV. Pre-Fire Planning
  - A. Concept
  - B. Phases
  - C. Methods
  - D. Format
  - E. Occupancy Classifications
  - F. Building Types
- V. Basic Divisions of Tactics
  - A. Size-up
    - 1. Facts
    - 2. Probabilities
    - 3. Own Situation
    - 4. Decision
    - 5. Plan of Operation
- VI. Rescue
  - A. Life Safety Problems of Fire
  - B. Determination of Life Hazard
  - C. Rescue Resources and Operations
- VII. Exposures
  - A. Principle Contributing Factors
  - B. Exposure Protection Operations

VIII. Confinement

- A. Fire Separations
- B. Fire Loading
- C. Built-in Protection
- D. Operations

IX. Ventilation

- A. Relationship to Objectives
- B. Equipment
- C. Roof Types
- D. Methods

X. Salvage

- A. Relationship to Objectives
- B. Equipment
- C. Operations During Fire
- D. Operations After Fire